



DoD Business Management Modernization Program (BMMP) and the Defense Installation Spatial Data Infrastructure

Installations & Environment Domain

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(Effective Jul 04)

**CADD/GIS Technology Center Board of
Directors**

26 May 2004



Business Transformation is Critical to DoD Success

Acquisition, Technology and
Logistics

“We simply have to transform this place. It is every bit as important to the success of the global war on terrorism as the other things we’re doing.”

-Secretary of Defense Donald Rumsfeld

“The Department of Defense will be managed in an efficient, business-like manner in which accurate, reliable, and timely financial information, affirmed by clean audit opinions, is available on a routine basis to support informed decision-making at all levels throughout the department.”

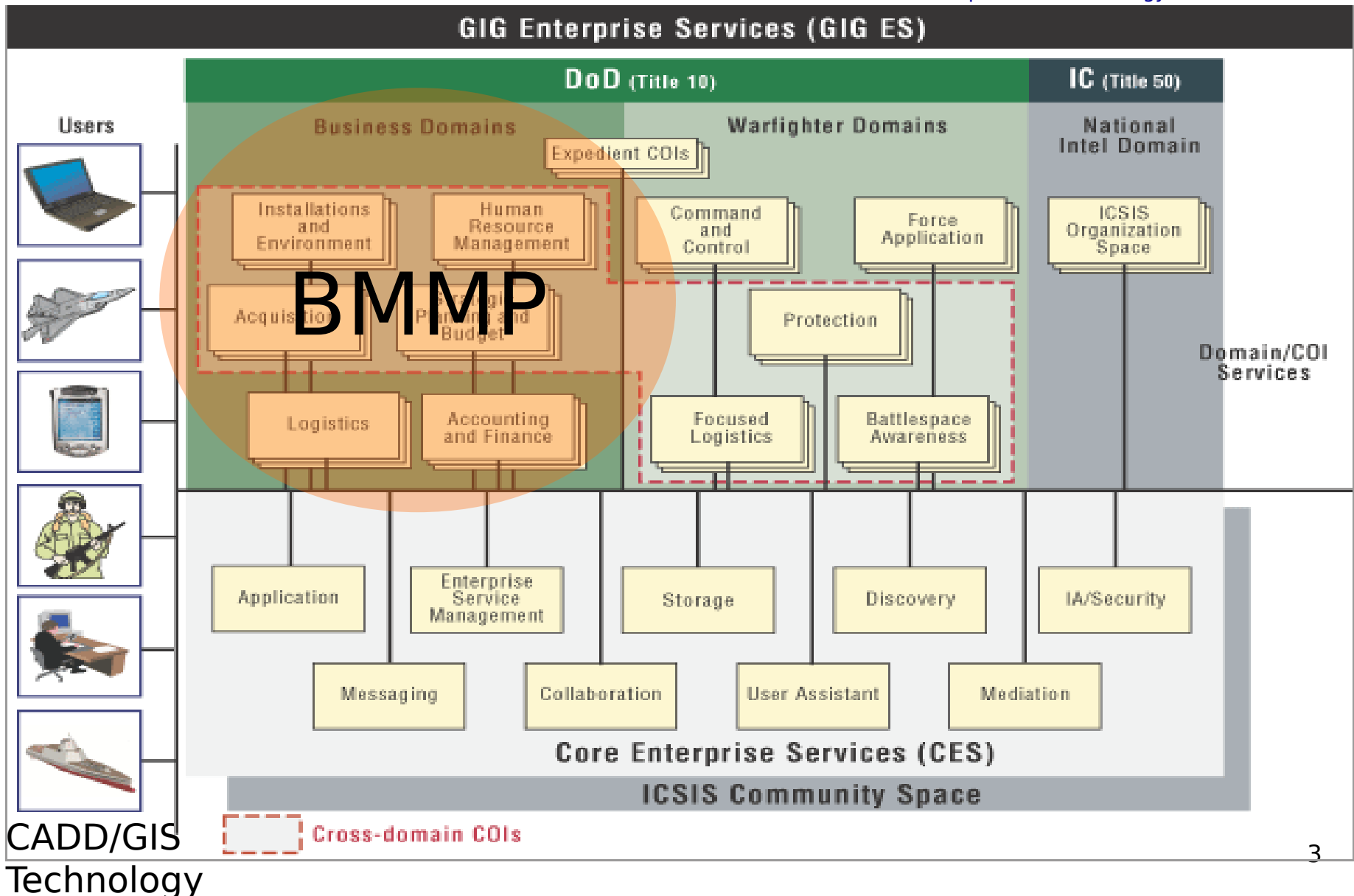
-Secretary of Defense Donald Rumsfeld





Approach: Global Information Grid

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I&E Domain Vision and Mission

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- Vision
 - Transformed world class I&E business operations enabled by integrated information solutions
- Mission
 - Support installation, environment, safety and occupational health community business transformation through collaborative:
 - o Business process reengineering
 - o Data management strategy
 - o IT integration
 - o Change management

“One Corporate Approach to I&E Community Management”



I&E Domain Principles

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- Involve I&E business process owners and management in all stages of development
- Standardize business rules, processes and data across the enterprise
- Capture and validate data once, then leverage it across the enterprise
- Use Service/Agency and industry leading practices
- Ensure that solutions are consistent and compatible with the overall DoD BEA

Business Processes Will Drive IT - Not Vice Versa



I&E Domain Scope

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The I&E Domain impacts:

- 2.4M Military and civilian employees who live, work and recreate at I&E's worldwide military bases
- \$43B+ /Year in expenditures for:
 - Facility sustainment, restoration, modernization and services (\$19B)
 - Base operating services (\$17B)
 - Family housing (\$4B)
 - Environmental services (\$3B)
- \$620B+ in Real Property Assets
 - 2.3 B square feet of buildings
 - 3.2 M acres
 - 6,700 sites worldwide
- 200 IT Systems ... and Counting



I&E Domain Capabilities

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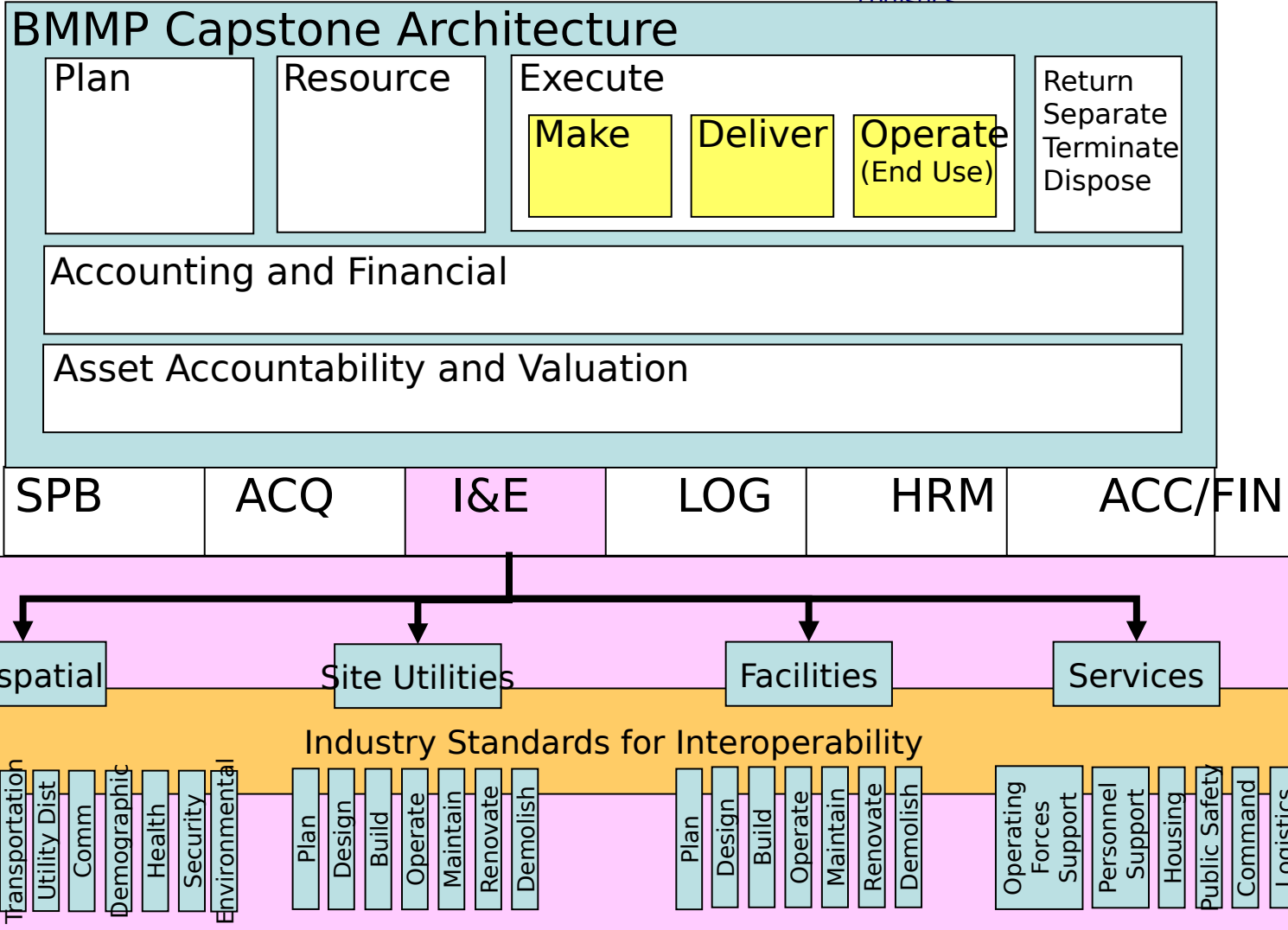
The I&E Domain Architecture will address the following capabilities:

- Real Property Management:
 - Real Property Inventory
 - Real Estate Administration (Leasing, etc.)
 - Space Management (Facilities, Utilization)
 - Engineering Management
 - Construction Projects
 - Real Property Planning
 - Housing Management
 - Maintenance & Operations
- Environment, Safety and Occupational Health
 - Clean-up/Restoration
 - Compliance and Monitoring
 - Pollution Prevention
 - Conservation
 - Safety and Occupational/Environmental Health
- Base Operations and Services
 - Base Operations and Services



BMMP Linking to the Industry

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Blending BMMP and Geospatial IT

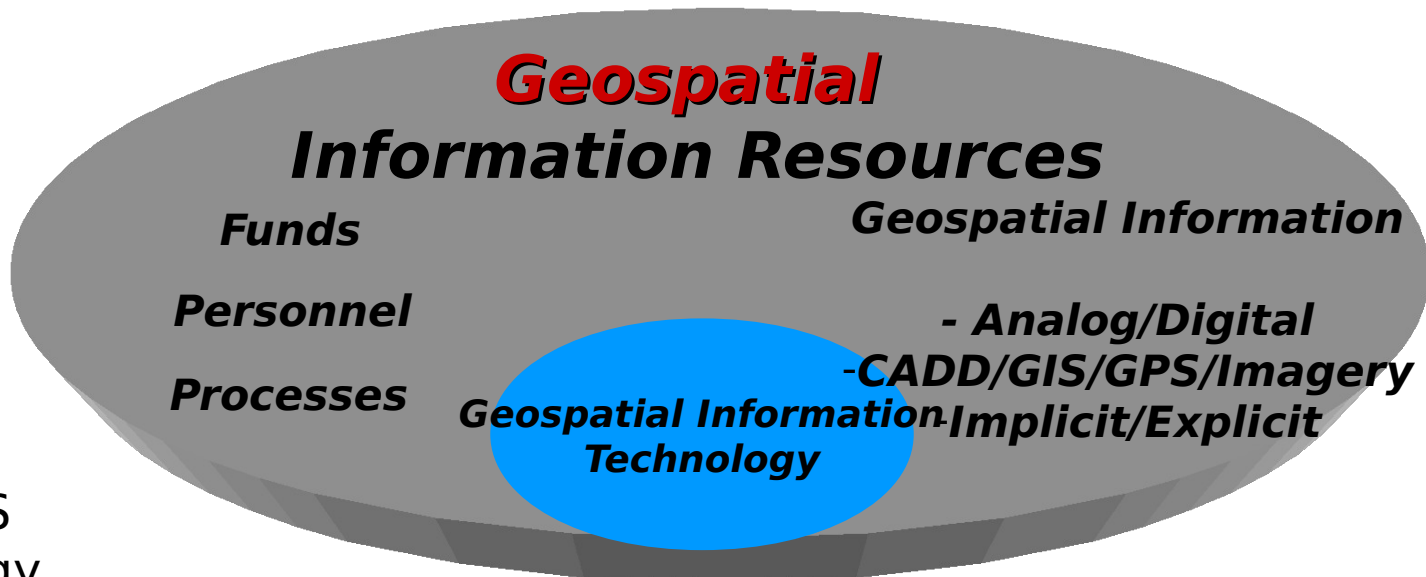
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Geospatial Information Technology:

Computers, ancillary equipment, software, firmware and similar procedures, services (including support services), and related resources.

Geospatial Information Resources:

Geospatial information itself and related resources, such as personnel, hardware, software, funds, and technology.





Merging I&E BMMP with DoD Installation Mapping & Visualization

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In FY01, DUSD/I&E sought to visualize all DoD installations via a common GIS known as the Installation Visualization Tool (IVT)

Services asked that IVT incorporate existing I&E GIS investments that have used a common data standard

USAF GeoBase approach seen as low-risk, feasible strategy capable of blending all service GIS efforts

Apr 03, DoD tapped the USAF to lead IVT by broadening their GeoBase protocol to include sister service I&E GIS programs with the following objectives:

- **Deliver situational awareness for BRAC '05 deliberations by May 04**
- **Supplement rigorous analyses with capability to visualize realignment potential**
- **Visualize select certified geo-data of DoD installations and ranges**





Geospatial Info Resource Management Across the Service Enterprise

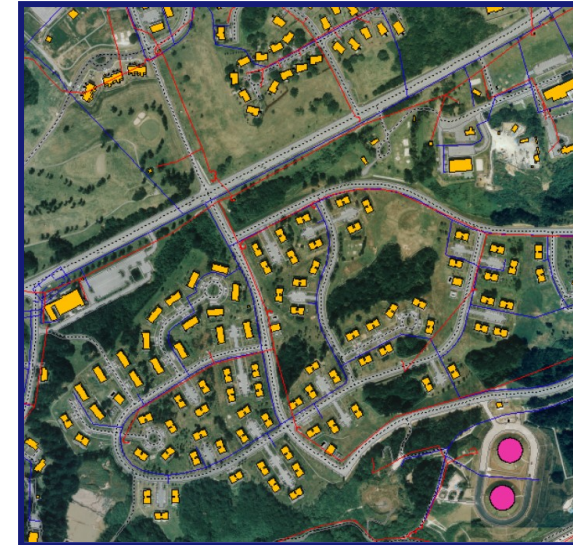
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Vision:

One installation... one map

Mission:

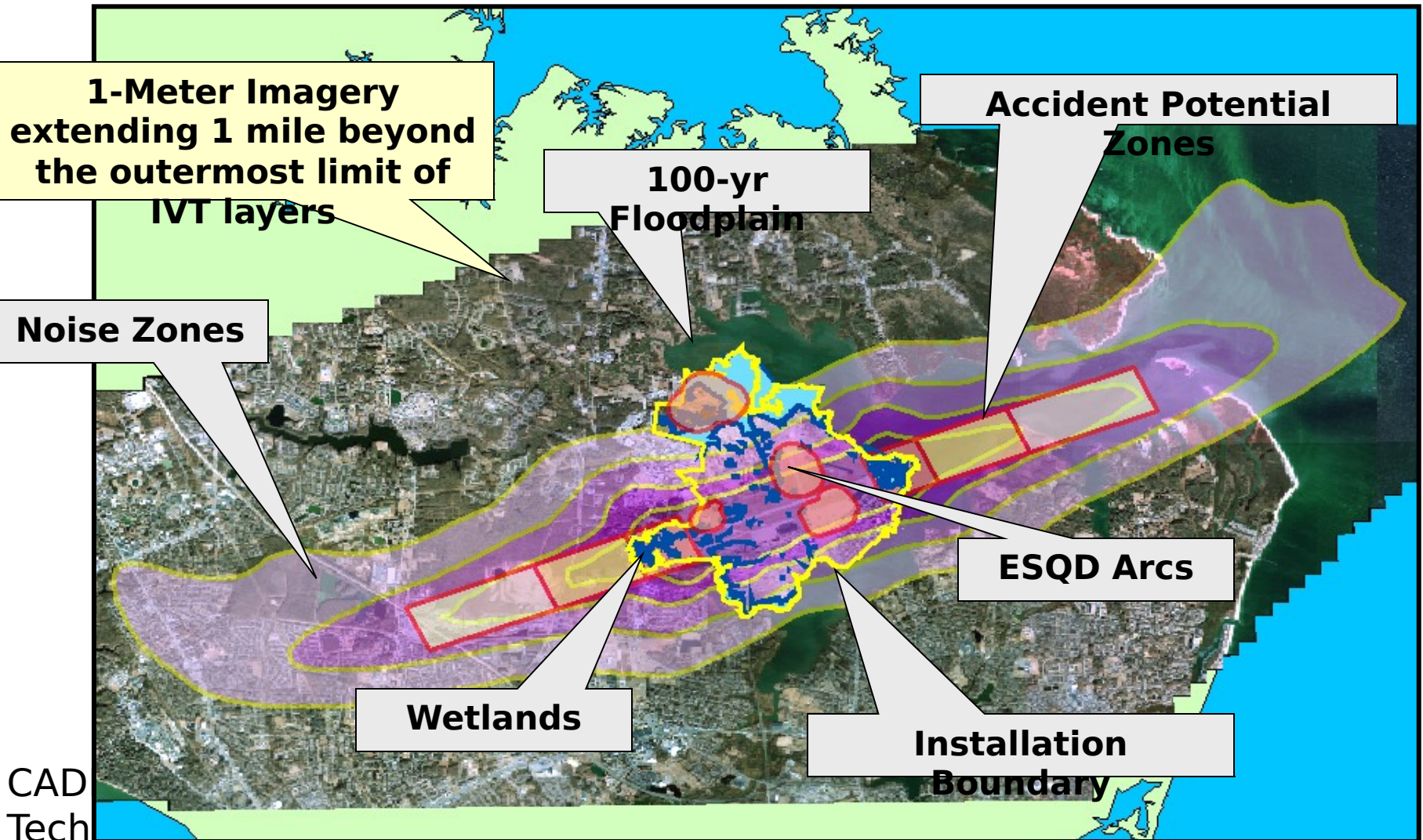
**Attain and sustain a
breakthrough capability
enabling shared, efficient use
of trusted integrated geo-
referenced information
delivering situational
awareness across installations**





IVT Example

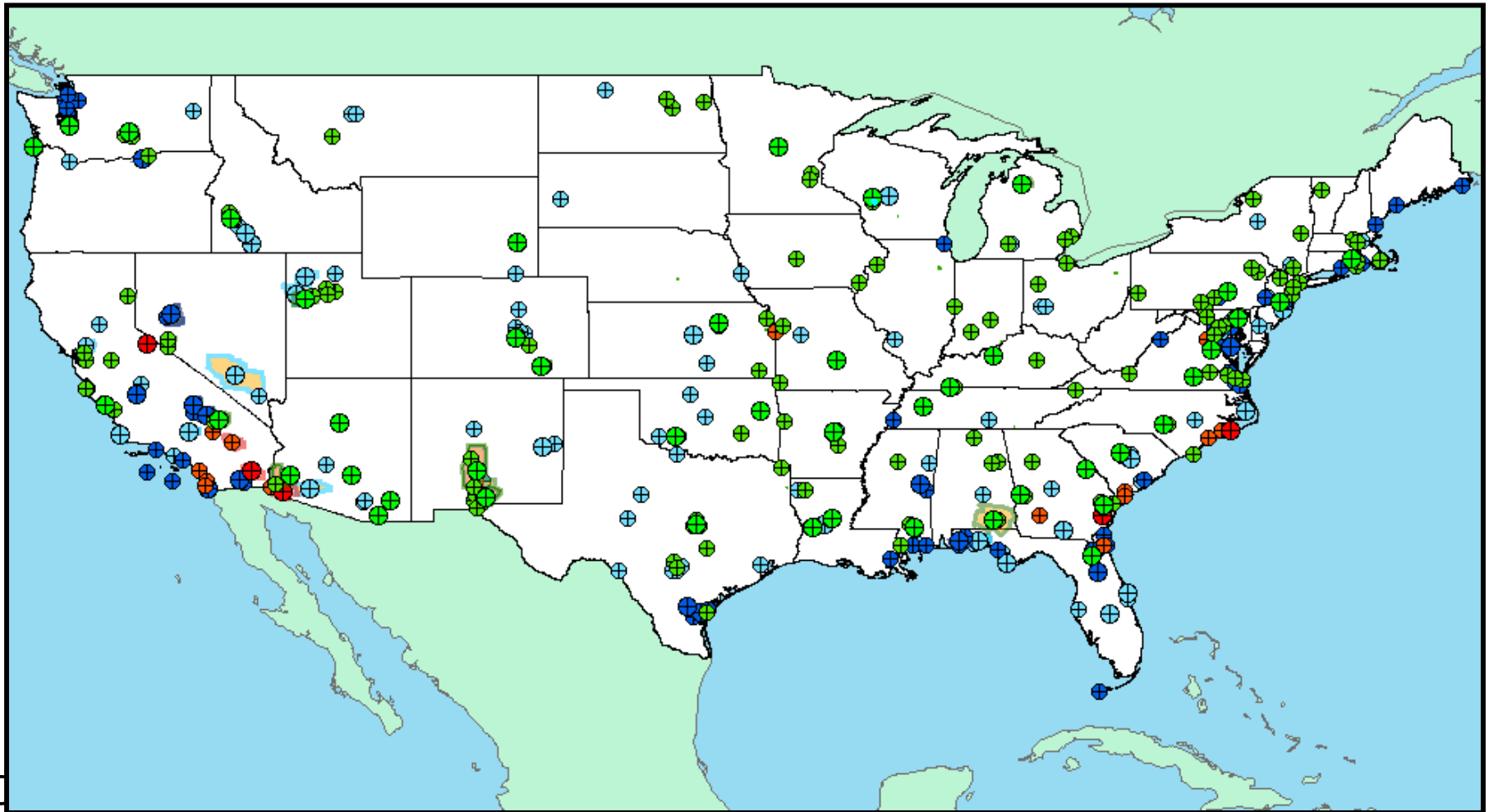
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IVT National Scope

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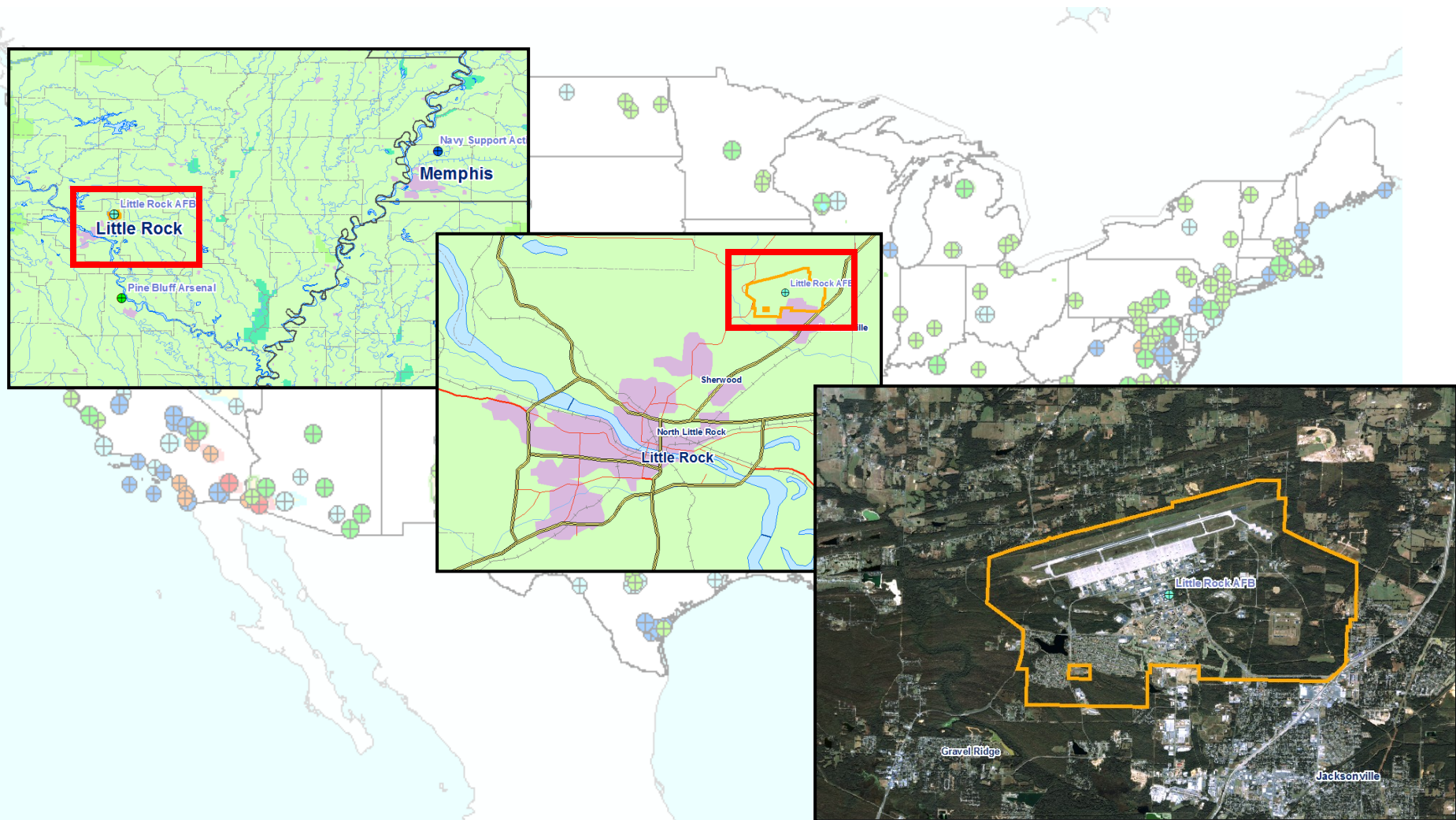


Technology



A Practical IVT Deliverable

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Leveraging A Standards-Based Framework

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BRAC 2005 Visualization Requirements

Imagery
Installation/Range Boundaries
Q-D Arcs
Wetlands
Floodplains
AICUZ (CZ/APZ)
Noise Contours



Federal Geospatial Metadata Standards

Spatial Data Standards for Facilities, Infrastructure and Environment

Auditory

Buildings
Cadastre
Climate
Common
Communications

Boundary

Cultural
Demographics
Environmental Hazards

Ecology
Fauna
Flora
Land Status

Military Operations

Soil

Transportation
Utilities
Visual
Olfactory
Geology

Future Projects
Geodesy

Hydrography

Improvements
Landform

Defense Installation Imagery Library

US Navy/Marines

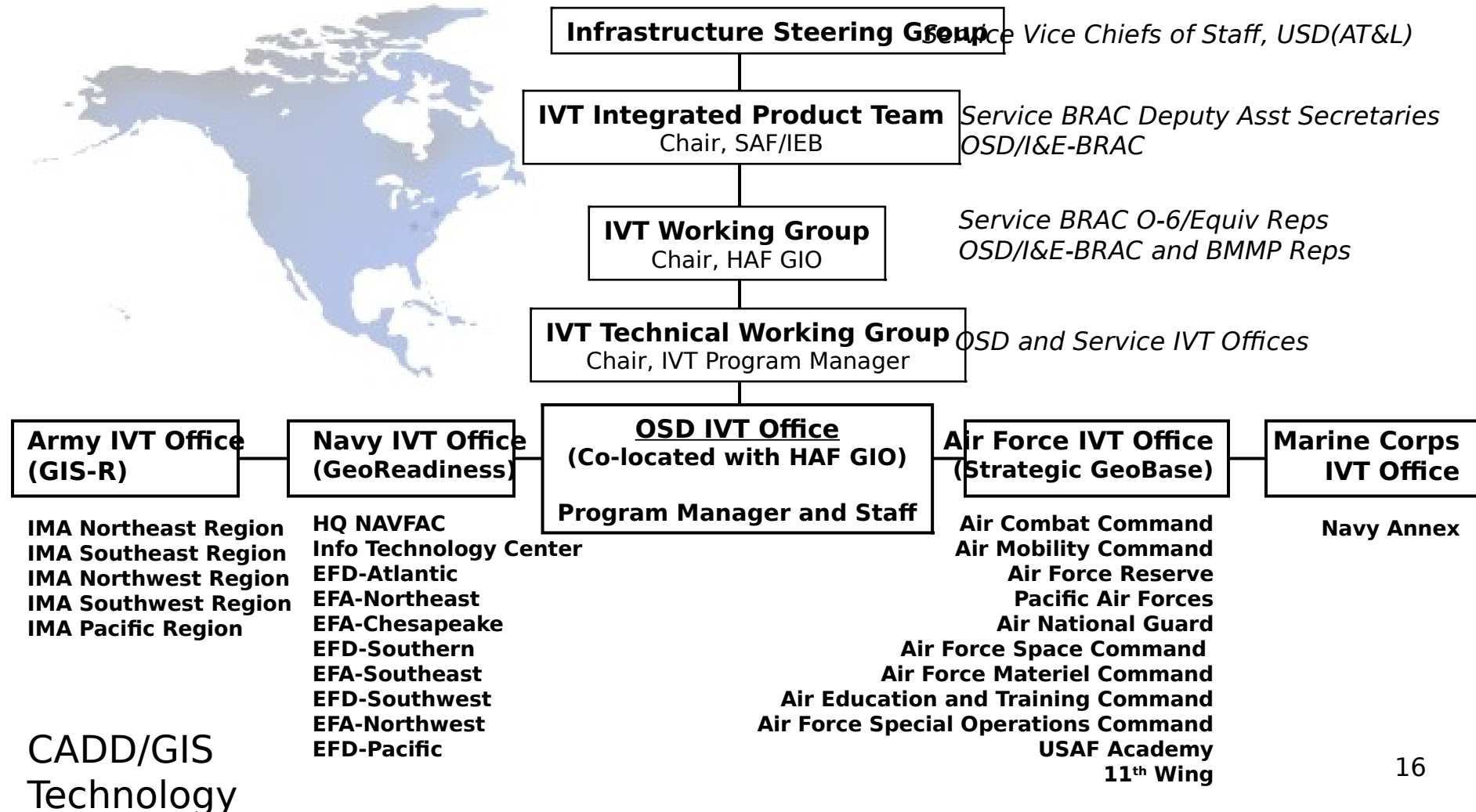
US Air Force

US Army



Leveraging a Federated Governance Model

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Building an Installations & Environment Mapping Capability Beyond IVT

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Demonstrated benefits of IVT warrant expansion beyond BRAC criteria

Enlarge *geographic scope* to worldwide population of defense installations
Enlarge *mapping scope* beyond original eight features portrayed for BRAC
Enlarge *analytical scope* beyond simple visualization

Service BRAC DASs seek to transfer enlarged oversight to new authority

July 04 is preferred target date to transfer governance authority from BRAC

Business transformation efforts include I&E geospatial information resources

Executive orders direct agency-wide sharing of geospatial information
Defense policies legislate acquiring data once, then sustain and share
All services have large investments in spatial datastores for I&E mission



OSD Installations & Environment Domain Governance Board Direction

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- Mar 04 -The I&E BMMP Domain Governance Board (I&E DGB) agreed:
 - **to have I&E assume responsibility for the Installation Visualization Tool (IVT)**
 - **to broaden IVT under a Defense Installation Spatial Data Infrastructure concept**
- I&E DGB recommended that the DISDI strategy should:
 - **be relevant to both the business *and* warfighter domains**
 - **yield one, standards-based, integrated capability rather than different systems**
 - **leverage existing capabilities present at the National Geospatial-Intelligence Agency and the Tri-Service CADD/GIS Technology Center, whenever possible**
- I&E DGB tasked DUSD/I&E(BT):
 - **to draft a transition plan to affect IVT oversight from BRAC to the I&E DGB**
 - **to develop an analysis of alternatives in selecting an optimal DISDI technology solution**



What is DISDI?

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- **The Defense Installation Spatial Data Infrastructure may be defined as:**
“ The **people, policies, and information resources** necessary to optimize acquiring, managing, and sustaining installations and environmental geospatial imagery and data throughout the defense sector according to DoD business transformation guidelines.”

DRAFT



OSD Installations & Environment Domain Governance Board Direction

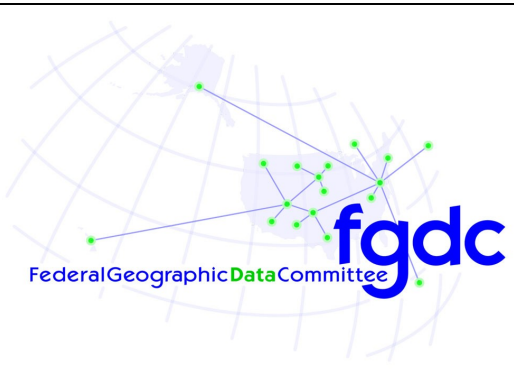
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- DUSD/I&E(BT) will
 - **Staff a DISDI Office effective Jul 04**
 - **Recommend to USD(C) and USD/AT&L that I&E be responsible for enterprise coordination of geospatial information capabilities for DoD installations**
 - **Include DISDI investment within I&E DGB oversight**
 - **Build a programming strategy to sustain DISDI beyond 06**
 - **Direct the DISDI Office to define an optimal DISDI architecture to satisfy I&E, DoD, and national needs**



Interested DISDI Partners

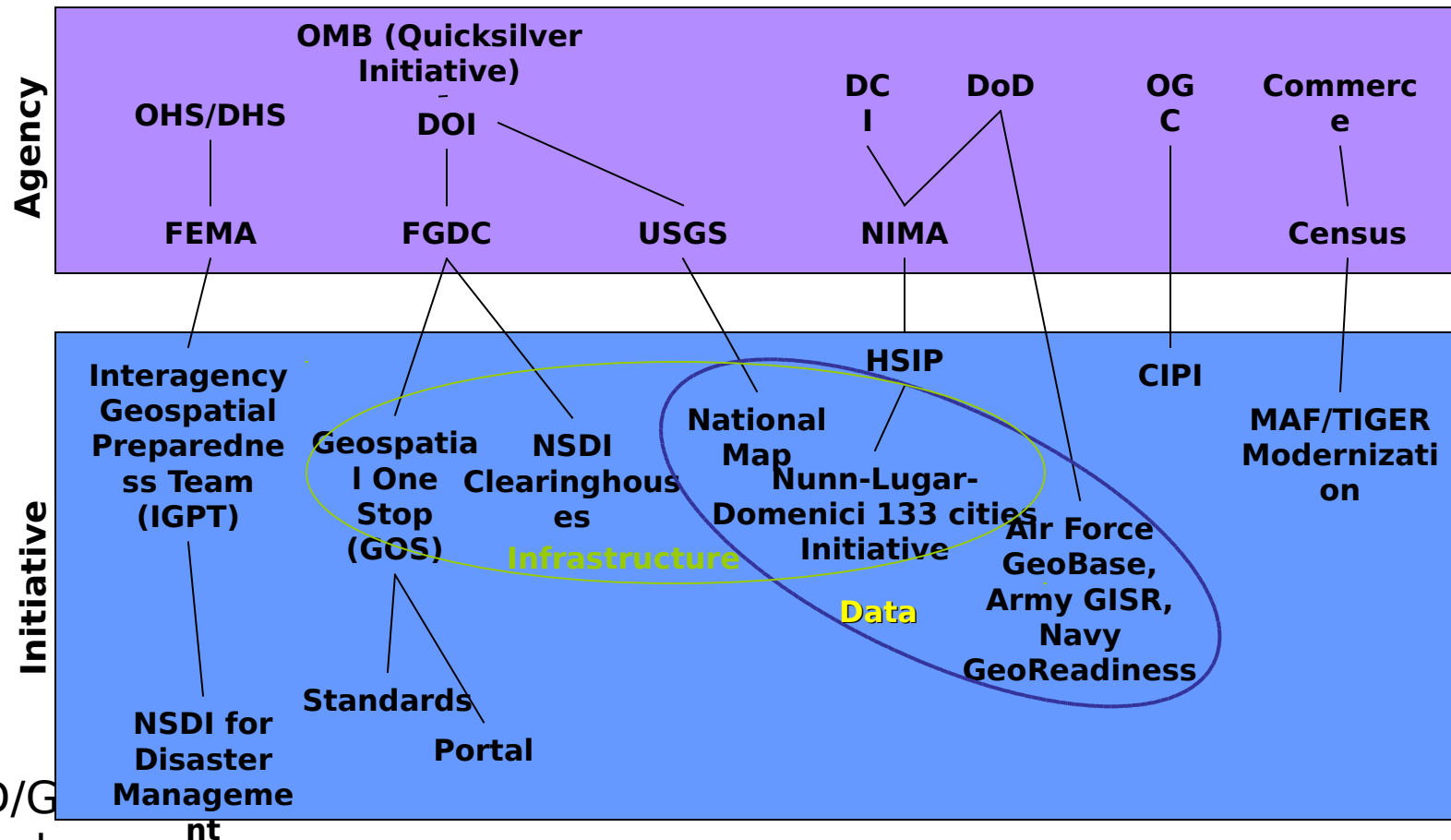
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Federal Geospatial Initiatives Seeking DoD I&E Participation

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Role for CADD/GIS Technology Center

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- **Adopt a Focus on Netcentric Enterprise Services (NCES)**
 - Key on DOD GIG and BMMP Goals
 - Support development of netcentric applications
- **Facilitate DOD and A/E/C Industry linkage to BMMP Capstone architecture**
 - Support COTS efforts to link to architecture
- **Continue supporting Standards efforts**
 - Support International Alliance for Interoperability
 - Support Geospatial Data Standards
 - Support National CAD Standard
 - Support Defense Installations Spatial Data Infrastructure
 - o Installation Visualization Tool (IVT)
 - o Supporting Critical Infrastructure Protection (AT/FP)
 - o Real Property Management
- **Team with the new DUSD/I&E(BT) DISDI office to align CADD/GIS Technology Center within larger BMMP processes**



Questions? Input? Assistance?

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*Arming the Warfighter
Through Business Improvement*

<http://www.dod.mil/comptroller/bmmp/pages/IE.htm>